

Claims:

1. A method for testing computing devices, comprising the steps of:

5 providing a plurality of suites of test programs for access by a server, wherein a first suite and a second suite of said plurality of suites are respectively adapted to run on a first platform and a second platform;

10 storing a first execution agent that is adapted to run on said first platform and a second execution agent that is adapted to run on said second platform for access by said server;

15 coupling a first computing device and a second computing device of said computing devices to said server, wherein said first computing device is adapted to operate using said first platform and said second computing device is adapted to operate using said second platform;

20 installing no more than one test harness on said server to support execution of said test programs by said first computing device and said second computing device;

25 using said test harness packaging a first test object with said first execution agent for download to said first computing device in a first package and packaging a second test object with said second execution agent for download to said second computing device in a second package;

responsively to an instruction of said test harness downloading said first package and said second package to said first computing device and said second computing device, respectively; and

concurrently executing a test program of said first package in said first computing device and a test program of said second package in said second computing device.

5 2. The method according to claim 1, wherein said first suite and said second suite comprise platform-specific JAR files.

10 3. The method according to claim 1, wherein said first package and said first package comprise JAR files.

4. The method according to claim 1, further comprising the steps of:

15 displaying said suites as a hierarchy of identifiers of test objects corresponding to said test programs; and

20 responsively to said step of displaying, selecting said first test object from said first suite for execution thereof by said first computing device, and selecting said second test object from said second suite for execution thereof by said second computing device.

25 5. A computer software product, comprising a computer-readable medium in which computer program instructions are stored, which instructions, when read by a computer, cause the computer to perform a method for testing computing devices, comprising the steps of:

30 providing a plurality of suites of test programs for access by a server, wherein a first suite and a second suite of said plurality of suites are respectively adapted to run on a first platform and a second platform;

 storing a first execution agent that is adapted to run on said first platform and a second execution agent that is

adapted to run on said second platform for access by said server;

coupling a first computing device and a second computing device of said computing devices to said server, wherein said 5 first computing device is adapted to operate using said first platform and said second computing device is adapted to operate using said second platform;

10 installing no more than one test harness on said server to support execution of said test programs by said first computing device and said second computing device;

15 using said test harness packaging a first test object with said first execution agent for download to said first computing device in a first package and packaging a second test object with said second execution agent for download to said second computing device in a second package;

responsively to an instruction of said test harness downloading said first package and said second package to said first computing device and said second computing device, respectively; and

20 initiating concurrent execution of a test program of said first package in said first computing device and a test program of said second package in said second computing device.

25 6. The computer software product according to claim 5, wherein said first suite and said second suite comprise platform-specific JAR files.

30 7. The computer software product according to claim 5, wherein said first package and said first package comprise JAR files.

8. The computer software product according to claim 5, wherein said computer is further instructed to perform the steps of:

5 displaying said suites as a hierarchy of identifiers of test objects corresponding to said test programs for selection of said first test object from said first suite for execution thereof by said first computing device, and said second test object from said second suite for execution thereof by said second computing device.

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9. A system for testing computing devices, comprising:
a communication interface for coupling a plurality of said computing devices thereto for use in communicating with said system via said communication interface;

15 a memory;
a single test harness object stored in said memory;
a suite of test programs stored in said memory for execution by said computing devices that are coupled to said system;

20 a processor that accesses said suite and said test harness object, wherein said processor cooperates with said test harness object to download said test programs via said communication interface for execution by said computing devices coupled thereto, so that at least first and second computing devices among said plurality execute different first and second test programs from said suite, and to receive messages via said communication interface from said computing devices with respect to execution of said test programs, and to control said execution of said test programs in said suite based on said 25 messages by communicating responses to said messages via said communication interface; and

wherein said first and second test programs are adapted to respective first and second platforms, and said first and second computing devices operate using said first and second platforms, respectively.

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10. The system according to claim 9, wherein said first and second test programs are executed substantially simultaneously under control of said processor.

10 11. The system according to claim 9, wherein said test harness object and said processor further cooperate to perform the steps of:

accessing first and second execution agents that are adapted to said first and second platforms, respectively; and

15 packaging said first and second test programs with said first and second execution agents, respectively for download to said first and second computing devices as first and second packages, respectively.

20 12. The system according to claim 11, wherein said first and second packages comprise platform-specific JAR files.

25 13. The system according to claim 9, further comprising a graphical user interface in said processor for displaying said test programs as a hierarchy for selection of said first and second test programs therefrom.

30 14. The system according to claim 9, wherein said computing devices are coupled to said communication interface via a common test host.